

Name: _____ Period: _____ Date: _____

More Multiplication Properties of Exponents Assignment

Simplify the following expressions.

1. $(x^3)^4$

2. $(a^3)^5$

3. $(a^0)^{10}$

4. $(5^2)^2$

5. $(2^3)^2$

6. $(a^2b^3)^5$

7. $(2x^3)^4$

8. $(3v^3r^2)^2$

9. $(4a^3b^2c^3)^0$

10. $(2q^{-1}r^5t^{-3})^2$

More Multiplication Properties of Exponents Assignment

Evaluate the following using properties of powers.

11. $9^2(3xy^2)^2$

12. $(2a^2b)^3(3ab)^2$

13. $(32uv^2)^0(4u^3v^3)^2$

14. $(12a^4b^2)^2(3ab)$

15. $(3x^3y^{-2})^2(4xy)^0$

16. $(3xy)^2(5x^2y)$

17. $(3x)^2(2xy)(5x)^2$

18. $(4x)^2(2x)(-3x^3)$

19. $(4ab)^2\left(\frac{1}{2}\right)^4$

20. $(5x^2y)(3x)^2(y)(4xy)^0$